RAW SEQUENCE LISTING
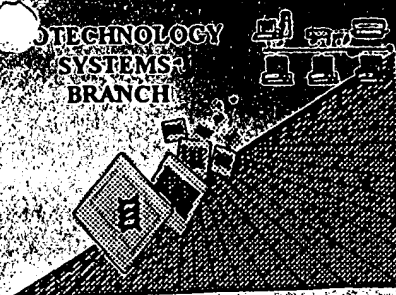# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/895940_

Source: _OIPE_

Date Processed by STIC: _10/19/01_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _09/895 940_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO

1 ____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length.

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)

Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences
(NEW RULES)

Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

OIPE

RAW SEQUENCE LISTING   DATE: 10/19/2001
PATENT APPLICATION: US/09/895,940   TIME: 09:56:19

Input Set : **A:\9151-16.st25.txt**
Output Set: **N:\CRF3\10192001\I895940.raw**

```
 3 <110> APPLICANT: Orlando, Joseph S.
 4         Ornelles, David A.
 6 <120> TITLE OF INVENTION: Adenovirus E4 Protein Variants for Virus Production
 8 <130> FILE REFERENCE: 9151.16
10 <140> CURRENT APPLICATION NUMBER: US 09/895,940
11 <141> CURRENT FILING DATE: 2001-06-29
13 <160> NUMBER OF SEQ ID NOS: 25
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 29
19 <212> TYPE: DNA
20 <213> ORGANISM: Synthetic oligonucleotide
22 <400> SEQUENCE: 1
23 cgctgctgtg ccgaggagac aaggcgcct
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 35
28 <212> TYPE: DNA
29 <213> ORGANISM: synthetic oligonucleotide
31 <400> SEQUENCE: 2
32 cgccttatgc tggaggcggt ggaaatcatc gctga
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 30
37 <212> TYPE: DNA
38 <213> ORGANISM: synthetic oligonucleotide
40 <400> SEQUENCE: 3
41 gcccggagga cagaggagct tatgctgcgg                                    30
44 <210> SEQ ID NO: 4
45 <211> LENGTH: 27
46 <212> TYPE: DNA
47 <213> ORGANISM: Synthetic oligonucleotide
49 <400> SEQUENCE: 4
50 gcccggagga cagagcgcct tatgctg                                       27
53 <210> SEQ ID NO: 5
54 <211> LENGTH: 27
55 <212> TYPE: DNA
56 <213> ORGANISM: Synthetic oligonucleotide
58 <400> SEQUENCE: 5
59 cggaggacaa gggagcttat gctgcgg                                       27
62 <210> SEQ ID NO: 6
63 <211> LENGTH: 30
64 <212> TYPE: DNA
65 <213> ORGANISM: Synthetic oligonucleotide
67 <400> SEQUENCE: 6
68 gcaacggcag cgctcatgct agcagcggtg                                    30
71 <210> SEQ ID NO: 7
72 <211> LENGTH: 30
73 <212> TYPE: DNA
```

Does Not Comply
Corrected Diskette Needed

Errored — a nucleotide is not an organism. Acceptable 213 responses are only "Artificial Sequence", "Unknown" or the name of some specific species.

Errored: Invalid 213 35 response

Errored: Invalid 213 response

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

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PATENT APPLICATION: US/09/895,940   TIME: 09:56:19

Input Set : **A:\9151-16.st25.txt**
Output Set: **N:\CRF3\10192001\I895940.raw**

```
 74 <213> ORGANISM: Synthetic oligonucleotide
 76 <400> SEQUENCE: 7
 77 caccgctgct agcatgagcg ctgccgttgc                              30
 80 <210> SEQ ID NO: 8
 81 <211> LENGTH: 30
 82 <212> TYPE: DNA
 83 <213> ORGANISM: Synthetic oligonucleotide
 85 <400> SEQUENCE: 8
 86 aagaccaaga agcttatgct gaaggcagta                              30
 89 <210> SEQ ID NO: 9
 90 <211> LENGTH: 30
 91 <212> TYPE: DNA
 92 <213> ORGANISM: Synthetic oligonucleotide
 94 <400> SEQUENCE: 9
 95 tactgccttc agcataagct tcttggtctt                              30
 98 <210> SEQ ID NO: 10
 99 <211> LENGTH: 30
100 <212> TYPE: DNA
101 <213> ORGANISM: Synthetic oligonucleotide
103 <400> SEQUENCE: 10
104 ggtgcgctgc tgcgcagaga ggacaaggcg                              30
107 <210> SEQ ID NO: 11
108 <211> LENGTH: 31
109 <212> TYPE: DNA
110 <213> ORGANISM: Synthetic oligonucleotide
112 <400> SEQUENCE: 11
113 gctgctgtgc ccgggagaca aggcgcctta t                            31
116 <210> SEQ ID NO: 12
117 <211> LENGTH: 29
118 <212> TYPE: DNA
119 <213> ORGANISM: Synthetic oligonucleotide
121 <400> SEQUENCE: 12
122 ggcgccttat gctcgaggcg gtgcgaatc                               29
125 <210> SEQ ID NO: 13
126 <211> LENGTH: 29
127 <212> TYPE: DNA
128 <213> ORGANISM: Synthetic oligonucleotide
130 <400> SEQUENCE: 13
131 gctgcgggcg gtcgaaatca tcgctgagg                               29
134 <210> SEQ ID NO: 14
135 <211> LENGTH: 37
136 <212> TYPE: DNA
137 <213> ORGANISM: Synthetic oligonucleotide
139 <400> SEQUENCE: 14
140 ggtgcgctgc tgtgcagctg cgacaaggcg ccttatg                      37
143 <210> SEQ ID NO: 15
144 <211> LENGTH: 30
145 <212> TYPE: DNA
146 <213> ORGANISM: Synthetic oligonucleotide
```

```
148 <400> SEQUENCE: 15
149 gcccggagga cagctgccct tatgctgcgg                        30
152 <210> SEQ ID NO: 16
153 <211> LENGTH: 41
154 <212> TYPE: DNA
155 <213> ORGANISM: Synthetic oligonucleotide
157 <400> SEQUENCE: 16
158 ggcgccttat gctggcagct gtggcaatca tcgctgagga g            41
161 <210> SEQ ID NO: 17
162 <211> LENGTH: 34
163 <212> TYPE: DNA
164 <213> ORGANISM: Synthetic oligonucleotide
166 <400> SEQUENCE: 17
167 gcgctgctgt gccgcgcgca caaggcgcct tatg                    34
170 <210> SEQ ID NO: 18
171 <211> LENGTH: 34
172 <212> TYPE: DNA
173 <213> ORGANISM: Synthetic oligonucleotide
175 <400> SEQUENCE: 18
176 gctgcgggcg gtcgcgatta tcgctgagga gacc                    34
179 <210> SEQ ID NO: 19
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Synthetic oligonucleotide
184 <400> SEQUENCE: 19
185 cccggaggac agcgcgcctt atgc                               24
188 <210> SEQ ID NO: 20
189 <211> LENGTH: 24
190 <212> TYPE: DNA
191 <213> ORGANISM: Synthetic oligonucleotide
193 <400> SEQUENCE: 20
194 cgcgcacaag agctcttatg ctgc                               24
197 <210> SEQ ID NO: 21
198 <211> LENGTH: 28
199 <212> TYPE: DNA
200 <213> ORGANISM: Synthetic oligonucleotide
202 <400> SEQUENCE: 21
203 ccttatgctg gcggccgtcg cgattatc                           28
206 <210> SEQ ID NO: 22
207 <211> LENGTH: 31
208 <212> TYPE: DNA
209 <213> ORGANISM: Synthetic oligonucleotide
211 <400> SEQUENCE: 22
212 ctgctgtgcc cgggcgacaa ggcgccttat g                       31
215 <210> SEQ ID NO: 23
216 <211> LENGTH: 30
217 <212> TYPE: DNA
218 <213> ORGANISM: Synthetic oligonucleotide
220 <400> SEQUENCE: 23
```

RAW SEQUENCE LISTING   DATE: 10/19/2001
PATENT APPLICATION: **US/09/895,940**   TIME: 09:56:19

Input Set : **A:\9151-16.st25.txt**
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```
221 ccggaggaca agggcccttta tgctgcgggc                                    30
224 <210> SEQ ID NO: 24
225 <211> LENGTH: 33
226 <212> TYPE: DNA
227 <213> ORGANISM: Synthetic oligonucleotide
229 <400> SEQUENCE: 24
230 ggcgccttat gctggcggcc gtgcgaatca tcg                                 33
233 <210> SEQ ID NO: 25
234 <211> LENGTH: 29
235 <212> TYPE: DNA
236 <213> ORGANISM: Synthetic oligonucleotide
238 <400> SEQUENCE: 25
239 gagctcttat gctagcggcg gtcgcgatt                                      29
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/895,940**

DATE: 10/19/2001
TIME: 09:56:20

Input Set : **A:\9151-16.st25.txt**
Output Set: **N:\CRF3\10192001\I895940.raw**